

RECEIVED  
CENTRAL FAX CENTER

FEB 02 2007

Attorney Docket No. S-2481/CONT  
MAIL STOP AFIN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Group Art Unit: 1618
	)	
YOKOYAMA; HONZAWA; OGAWA	)	Examiner: J. W. Rogers
	)	
Serial No. 10/666,384	)	
	)	
Filed: September 22, 2003	)	

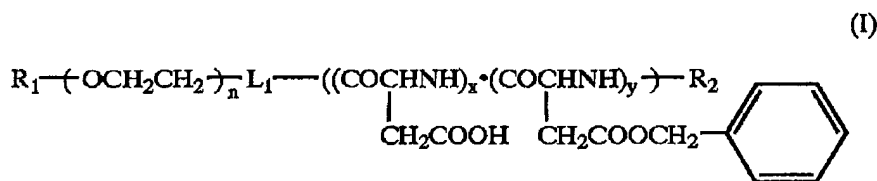
For: **PRODUCTION PROCESS FOR POLYMERIC MICELLE CHARGED  
THEREIN WITH DRUG AND POLYMERIC MICELLE COMPOSITION**

Appendix A

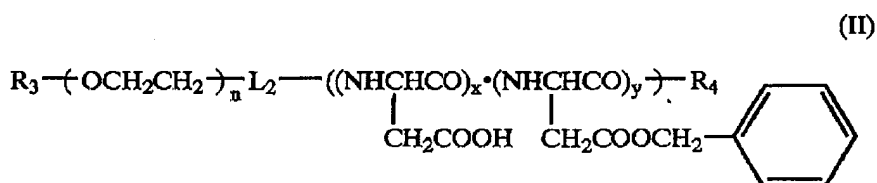
1. (Previously presented) A process for the production of a polymeric micelle charged therein with a water-scarcely soluble drug, comprising the steps of:

(A) dissolving a water-scarcely soluble drug and a block copolymer having a hydrophilic segment and a hydrophobic segment in a water non-miscible organic solvent to prepare an organic solution,

wherein the block copolymer is represented by the following Formula (I) or (II)



or



YOKOYAMA *et al.*  
S-2481/CONT  
USSN 10/666,384

wherein  $R_1$  and  $R_3$  represent a hydrogen atom or a lower alkyl group;  $R_2$  represents a hydrogen atom, a saturated or unsaturated  $C_1$  to  $C_{29}$  aliphatic carbonyl group or an arylcarbonyl group;  $R_4$  represents a hydroxyl group, a saturated or unsaturated  $C_1$  to  $C_{30}$  aliphatic oxy group or an aryl-lower alkyloxy group;  $L_1$  represents a linkage group selected from the group consisting of -NH-, -O- and -OCO-Z-NH- (wherein Z represents a  $C_1$  to  $C_4$  alkylene group);  $L_2$  represents a linkage group selected from -OCO-Z-CO- and -NHCO-Z-CO- (wherein Z represents a  $C_1$  to  $C_4$  alkylene group); n represents an integer of 10 to 2500; x and y may be the same or different and represent integers the total of which is 10 to 300; x to y falls in a range of 7 : 3 to 1 : 3,

(B) mixing the resulting organic solution with an aqueous medium to form an oil-in-water (O/W) type emulsion,

(C) vaporizing and removing the above organic solvent from the resulting emulsion to form a polymeric micelle solution charged therein with the above drug, and

(D) subjecting the resulting polymeric micelle solution, if necessary, to supersonic treatment and ultrafiltration treatment.

Claims 2-18 (Cancelled)